

Appl. No. 10/058,270  
Amdt. dated May 14, 2003  
Response to Notice to Comply of March 20, 2003

PATENT

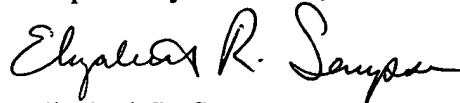
REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-141, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



Elizabeth R. Sampson  
Reg. No. 52,190

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
Tel: 415-576-0200  
Fax: 415-576-0300  
ERS:dmw  
SF 1460356 v1

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the Specification:**

Paragraph beginning at line 7 of page 52 has been amended as follows:

Various tag polypeptides and their respective antibodies are well known in the art. Examples include poly-histidine (poly-his) or poly-histidine-glycine (poly-his-gly) tags; HIS6 (SEQ ID NO:139) and metal chelation tags, the flu HA tag polypeptide and its antibody 12CA5 (Field *et al.*, *Mol. Cell. Biol.* 8:2159-2165 (1988)); the c-myc tag and the 8F9, 3C7, 6E10, G4, B7 and 9E10 antibodies thereto (Evan *et al.*, *Molecular and Cellular Biology* 5:3610-3616 (1985)); and the Herpes Simplex virus glycoprotein D (gD) tag and its antibody (Paborsky *et al.*, *Protein Engineering* 3(6):547-553 (1990)). Other tag polypeptides include the Flag-peptide (Hopp *et al.*, *BioTechnology* 6:1204-1210 (1988)); the KT3 epitope peptide (Martin *et al.*, *Science* 255:192-194 (1992)); tubulin epitope peptide (Skinner *et al.*, *J. Biol. Chem.* 266:15163-15166 (1991)); and the T7 gene 10 protein peptide tag (Lutz-Freyermuth *et al.*, *Proc. Natl. Acad. Sci. USA* 87:6393-6397 (1990)).

Paragraph beginning at line 17 of page 96 has been amended as follows:

The first strand can be made using using Gibco's "SuperScript Choice System for cDNA Synthesis" kit. The starting material is 5 ug of total RNA or 1 ug of polyA+ mRNA. For total RNA, 2 ul of SuperScript RT is used; for polyA+ mRNA, 1 ul of SuperScript RT is used. The final volume of first strand synthesis mix is 20 ul. The RNA should be in a volume no greater than 10 ul. The RNA is incubated with 1 ul of 100 pmol T7-T24 oligo (SEQ ID NO:140) for 10 min at 70°C followed by addition on ice of 7 ul of: 4ul 5X 1<sup>st</sup> Strand Buffer, 2 ul of 0.1M DTT, and 1 ul of 10mM dNTP mix.

The preparation is then incubated at 37°C for 2 min before addition of the SuperScript RT followed by incubation at 37°C for 1 hour.

Paragraph (TABLE 13, heading) beginning at line 4 of page 215 has been amended as follows:

**TABLE 13: Table 1 from BRCA 001-5 US**

**Table 13** depicts a preferred group of genes upregulated in breast cancer cells.

Pkey: Unique Eos probeset identifier number  
ExAccn: Exemplar Accession number, Genbank accession number  
UnigenelD: Unigene number  
Unigene Title: Unigene gene title  
R1: Ratio of tumor to normal body tissue  
In Pkeys 119867 and 129665, KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum retention sequence = SEQ ID NO:141.

Paragraph (Table 25, Seq ID NO: 96) beginning at line 27 of page 389 has been amended as follows:

Seq ID NO: 96 Protein sequence:  
Protein Accession #: NP\_002488

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1      11      21      31      41      51
|      |      |      |      |      |
GIREFNP NIM ANEVERINMI TOSIGENEA-RELATEDKIN-ASEHOMOSAPI-ENSMPSRAE 60
DYEVLTYTIGT GSYGRCQKIR RKSDGKILVW KELDYGSMTE AEKQMLVSEV NLLRELKHPN 120
IVRYYDRIID RTNTTLYIVM EYCEGGDLAS VITKGTKERQ YLDEEFVLRV MTQLTLALKE 180
CHRRSDGGHT VLHRDLKPAN VFLDGKQNVK LGDFGLARIL NHDTSFAKTF VGTPYYMSPE 240
QMNRMSYNEK SDIWSLGCLL YELCALMPPF TAFSQKELAG KIREGKFRRI PYRYSDELNE 300
IITRMLNLKD YHRPSVEEIL ENPLIADLVA DEQRRNLERR GRQLGEPEKS QDSSPVLSEL 360
KLKEIQLQER ERAKAREER LEQKEQELCV RERLAEDKLA RAENLLKNYS LLKERKFLSL 420
ASNPELLNLP SSVIKKKVHF SGESKENIMR SENSESQLTS KSKCKDLKKR LHAAQLRAQA 480
LSDIEKNYQL KSRQILGMR
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Paragraph (Table 25, Seq ID NO: 98) beginning at line 30 of page 392 has been amended as follows:

Seq ID NO: 98 Protein sequence:  
Protein Accession #: NP\_008981.1

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1      11      21      31      41      51
|      |      |      |      |
GIREFNPRO TEINTYROSI NEPHOSPHAT ASERECEPTO RTYPETHOMO SAPIENSMAS 60
LAALALSLLL RLQLPPLPGA RAQSAPGGCS FDEHYSNCGY SVALGTNGFT WEQINTTEKP 120
MLDQAVPTGS FMMVNSSGRA SGQKAHLLP TLKENDTHCI DFHYFSSRD RSSPGALNVY 180
VKVNGGPQGN PVWNVSGVVT EGWVKAELAI STFWPHFYQV IFESVSLKGH PGYIAVDEV 240
VLAHPCRKAP HFLRLQNVEV NVGQNATFQC IAGGKWSQHD KLWLQQWNGR DTALMVTRVV 300
NHRRFSATVS VADTAQRSVS KYRCVIRSDG GSGVSNYAEL IVKEPPTPIA PPELLAVGAT 360
YLWIKPNANS IIGDGPILK EYEYRTTGT WAETHIVDSP NYKLWHLDPD VEYEIRVLLT 420
RPGEGGTGPP GAPLTTRTKC ADPVHGPQNV EIVDIRARQL TLQWEPFGYA VTRCHSYNLT 480
VQYQYVFNQQ QYEAEEVIQT SSHYTLRGLR PFMTIRLRL LSNPEGRMES EELVVQTEED 540
VPGAVPLESI QGGPFEEKIY IQWKPPNETN GVITLYEINY KAVGSLDPSA DLSSQRGKVF 600
KLRNETHHLF VGLYPGTTY SFTIKASTAKG FGPPVTTRIA TKISAPSMPE YDTDPLNET 660
DTTITVMLKP AQSRGAPVSV YQLVVKEERL QKSRRADII ECFSPVPSYR NASSLDSLHY 720
FAAELKPANL PVTQPFVGD NKTNGYWNP PLSPLKSYSI YFQALSKANG ETKINCVRLA 780
TKAPMGSAQV TPGTPLCLLT TGASTQNSNT VEPEKQVDNT VKMAGVIAGL LMFIIILLGV 840
MLTIKRRRNA YSYSYLSQR KLAKKQKETQ SGAQREMGPV ASADKPTTKL SASRNDEGFS 900
SSSQDVNGFT DSGRGELSQP TLTIQTHPYR TCDPVEMSYP RDQFQLAIRV ADLLQHITQM 960
KRGQGYGFKE EYEALPEGQT ASWDTAKEDE NRNKNRYGNI ISYDHSRVRL LVLGDGPHSD 1020
YINANYIDGY HRPRHIYATQ GPMQETVKDF WRMIWQENSA SIVMVTNLVE VGRVKCVRYW 1080
PDDTEVYVDI KVTLIETEPL AEYVIRTFTV QKKGYHEIRE LRLFHTSWP DHGVPCYATG 1140
LLGFVRQVKF LNPPEAGPIV VHCSAGAGRT GCFIAIDTML DMAENEGVVD IFNCVRELRA 1200
QRVNLVQTEE QYVFDHAIL EACLCGNTAI PVCEFRSLYY NISRLDPQTN SSQIKDEFQT 1260
LNIVTPRVRP EDCSIGLLPR NHDKNRSMDV LPLDRCLPFL ISVDGESSNY INAALMDSHK 1320
QPAAFVVTQH PLPNTVADFW RLVFDYNCSS VVMLNEMDTA QFCMQYWPEK TSGCYGPIQV 1380
EFVSADIDED IHRIFRICN MARPDGYRI VQHLQYIGWP AYRDTPPSKR SLLKVVRRL 1440
KWQEYDGRE GRVTVHCLNG GGRSGTFCAI CSVCEMIQQQ NIIDVFHIVK TLRNKNKSNMV 1500
ETLEQYKFVY EVALEYLSSF
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